

## MICROFLUIDIC SYSTEMS WITH ENHANCED DETECTION SYSTEMS

## ABSTRACT

5           Microfluidic devices and systems having enhanced detection sensitivity, particularly  
for use in non-fluorogenic detection methods, e.g., absorbance. The systems typically employ  
planar microfluidic devices that include one or more channel networks that are parallel to the major  
plane of the device, e.g., the predominant plane of the planar structure, and a detection channel  
segment that is substantially orthogonal to that plane. The detection system is directed along the  
10 length of the detection channel segment using a detection orientation that is consistent with  
conventional microfluidic systems.